#### CALTRANS 2000 VA PROGRAM

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#### FHWA VALUE ENGINEERING STUDY SUMMARY REPORT

Division/State: California Fiscal Year: 2000

1. Number of VE studies completed this year.

In-house	Consultant	Total
4	17	21

2. Cost of performing the VE studies completed this year.

In-house		Consultant	Administrative	Total
80	\$435,175	\$ <b>4</b> 51,268	\$550,000	\$1,436,443

Estimated construction costs of projects studied.

In-house	Consultant	Total
\$135,092,000	\$1,285,289,000	\$1,420,381,000

4. Number & Value of VE All Recommendations proposed this year.

	In-House Led	Consultant Led
Cost Savings	\$82,126,198	\$620,694,126
Cost Increases	-\$5,316,959	-\$259,762,046
No. Recommendations	32	201

5. Number & Value of Approved & Conditionally Approved VE recommendations (including carryover projects from other years).

#### Approved

	In-House Led	Consultant Led
Cost Savings	10,300,000	\$55,573,428
Cost Increases		-\$107,998,360
No. Recommendations	13	63

#### Conditionally Approved

E	In-House Led	Consultant Led
Cost Savings	\$7,000,000	\$2,074,906
Cost Increases		-\$982,560
No. Recommendations	3	11

#### FHWA VALUE ENGINEERING STUDY SUMMARY REPORT

6. Life-cycle cost (cost avoidance) savings from VE studies.

#### Accepted Recommendations

	In-House Led	Consultant Led
Initial Savings		
Subsequent Savings		
Highway User Savings	\$0	\$308,958,239
Total (NPV) LCC Savings		

#### Conditionally Accepted Recommendations

8	In-House Led	Consultant Led
Initial Savings		3
Subsequent Savings		
Highway User Savings		\$1,470,340
Total (NPV) LCC Savings		

7.	Total VE-related training costs	(include an estimate of salaries	of persons attending, t	ravel
	cost and local incidental costs _	\$ 161,752		

- 8. Number of employees trained in VE during fiscal year.
  - a. FHWA
  - b. State and Others \_\_\_\_\_.

- 11. Savings from approved construction VECPs.

In-house Value	1.275,002
Contractor Value	1.275,002
Total	2,550,005

# Caltrans 2000 VA Program Projects Studied and Construction Estimate

\$8,910,000 \$8,910,000	2-325900 PLU-70- 41.5/ 46.3 Quincy Rehab ROADWAYREHAB & Total Construct Estimate for Study
\$6,800,000 \$6,800,000	2-238020 SHA-299-/273/44 Redding Cuplet  Total Construct Estimate for Study
\$21,792,000 \$21,792,000	3-441630 SAC-50-12.3/23.1 HOV Lanes, Sunrise Blvd to El Dorado Total Construct Estimate for Study
\$23,300,000 \$23,300,000	3-388000 YOL-50- 1.2/ 1.4 WIDEN OC & REVISE E/B RAMPS - 6 LNS Total Construct Estimate for Study
\$64,500,000 \$64,500,000	3-333800 PLA-65-R12.2/R23.8 Lincon Bypass  Total Construct Estimate for Study
	3-366101 NEV-80- 20.3/ 23.6 "PCC OL, WIDEN MED, REHAB BR 3-0A990K NEV-80- 13.2/ REPLACE BRIDGE 3-408101 NEV-80- 23.6/ 28.1 "CRACK, SEAT AND PCC OVERLAY <i>Total Construct Estimate for Study</i>
\$3,000,000	3-0A6001 PLA-80- 14.3/ 40 OVERLAY 3-44140K PLA-80- 33/ 69.7 DRAINAGE CORRECTION & MAINTENANG 3-352710 PLA-80- 43.5/ 54.6 IMPROVE CHAIN CONTROL AREA & LIG Total Construct Estimate for Study
\$61,000,000 \$75,000,000 \$1,625,000 \$137,625,000	3-3A200K PLA-80-54.6/68.5 PCC OVERLAY AND RAMP REHAB 3-0A630K NEV-80-R2.5/15.5 MICROSEAL EXISTING AC 3-440901 PLA-80-28.6/29.3 RAISE 2 STRUCTURES FOR CLEARAN( Total Construct Estimate for Study
\$22,572,000 \$22,572,000	3-368501 YOL-84- 18.4/R21.8 Widen Jefferson Blvd.  Total Construct Estimate for Study
\$62,575,000 \$62,575,000	4-228770 CC -4- 22.2/ 23.8 WDN & RECONSTR IC (RAILROAD AV Total Construct Estimate for Study
\$41,220,000 \$41,220,000	4-120611 NAP-29- 12.5/ 13.5 CONSTRUCT INTERCHANGE Total Construct Estimate for Study
. , ,	4-291001 SF -101- 4.7/ 5.1 CONST CENTRAL FWY REPLACEMENT 4-291301 SF -101- 4.7/ 5.1 SEISMIC RETROFIT  Total Construct Estimate for Study
\$28,800,000 \$28,800,000	4-253801 NAP-121-R5/R5.5 MAXWELL BRIDGE REPLACEMENT Total Construct Estimate for Study
\$59,653,000 \$59,653,000 Caurans 200	4-439700 SCL-237-8/9.6 MODIFY RTE 237/880 VC (STAGE C)  Total Construct Estimate for Study  VA Report  page 3

# Caltrans 2000 VA Program Projects Studied and Construction Estimate

\$4,000,000	4-23810K ALA-580-R9.3/10.1 RECONSTRUCT INTERCHANGE
\$4,000,000	Total Construct Estimate for Study
\$49,635,000 \$49,635,000	6-350700 FRE-99-R1/7.1 4F TO 6F  Total Construct Estimate for Study
\$52,069,000	7-106951 LA -10- 28/ 31.2 CNSTRCT ONE HOV LN IN EA
\$52,069,000	Total Construct Estimate for Study
\$135,019,000	11-030100 SD -5-R30/R34.5 "CONTIGUOUS FWY,DIR CONN,TRK
\$135,019,000	Total Construct Estimate for Study
\$34,491,000	11-068001 IMP-7- 1.2/ 6.7 CONSTRUCT 4 LANE HIGHWAY
\$3 <i>4</i> , <i>4</i> 91,000	Total Construct Estimate for Study
\$333,782,000 \$333,782,000	11-06480K SD -15-M11.4/R31.5 CONST HOV/MANAGED LANES  Total Construct Estimate for Study
\$217,531,000 \$2 <i>17,531,000</i>	11-093160 SD -905- 5.7/ 12 CONST 6-LANE FWY  Total Construct Estimate for Study

# Caltrans 2000 VA Program Study Costs

ize	INH	HOUSE COSTS	S \$65/Hr		sts	ts
Inhouse Team Size	nhouse Days Inhouse Report Yrs.		rse ts	t ts	Program Administration Costs	Total Study Costs
se T	se D	ses nses	Inhou , Cos	ultan ' Cos	am iistrati	Stua
noqu	Inhouse Inhouse Hrs.	Inhouse Expenses	Sum Inhouse Study Costs	Consultant Study Costs	Program Administ	Total
99 _10	Consultant 6	49 2-325900 \$1,000	PLU-70- 41.5/ 46 \$32,200	.3 Quincy Reha _ <u>\$26,030</u>	nd Roadway Re \$26,190	EHAB & \$84.420
			ΨΟΣ,ΣΟΟ	<u> </u>	Ψ20,100	_ ψο τ, τ2 ο
2000	Inhous e		SHA-299-/273/44	Redding Cuple		
_7	_6100	\$750	\$29,090		\$26,190	\$55,280
99	Consultant	83 3-441630	SAC-50- 12.3/ 23	3.1 HOV Lanes,	Sunrise Blvd to	El Dorado
_8	_5	<del></del>	\$20,800	_\$4,999	\$26,190	\$51,990
2000	Consultant	119 3-388000	YOL-50- 1.2/ 1.4	WIDEN OC & F	REVISE E/R RAM	1PS - 6 I NS
_4	_5 <u>120</u>		\$18,200	\$15,881	\$26,190	\$60,271
99	Inhouse	90 3-333800	PLA-65-R12.2/R2	23.8 Lincon Byp <i>\$9.766</i>		<b>#</b> 05.000
_11	_510		\$29,250	<u> </u>	\$26,190	_\$65,206
99	Consultant	41 3-366101	NEV-80- 20.3/ 23	s.6 "PCC OL, W	IDEN MED, REH	AB BR
_8	_5		\$20,800	<u>\$23,464</u>	\$26,190	<u>\$70,454</u>
99	Consultant	40 3-0A6001	PLA-80- 14.3/ 40	OVERLAY		
_6	_5		\$15,600	\$21,679	\$26,190	\$63,469
99 _8	Consultant 5	39 3-3A200K	PLA-80- 54.6/ 68		\$26,190	
	<u> </u>		φ20,800	<u> </u>	<u> </u>	
99C	Inhous e	ca3 3-368501	YOL-84- 18.4/R2	1.8 Widen Jeffe	rson Blvd.	
_8	_565	<del></del>	\$25,025		\$26,190	\$51,215
2000	Consultant	84 4-228770	CC -4- 22.2/ 23.	8 WDN & RECO	ONSTR IC (RAILR	ROAD AV IC)
	_6		\$28,080		•	•
000	Inhous e	22 / 420644	NAP-29- 12.5/ 13	OF CONSTRUC	T INITEDOLIANIOS	<u>-</u>
99C _6	_6					

### Caltrans 2000 VA Program Study Costs

Size	INF	OUSE COST	S \$65/Hr		sts	sts
Inhouse Team Size	Inhouse Days Inhouse Report Hrs.	Inhouse Expenses	Sum Inhouse Study Costs	Consultant Study Costs	Program Administration Costs	Total Study Costs
2000	Consultant	32 4-291001	SF -101- 4.7/ 5.1	CONST CENT	RAL FWY REPLA	ACEMENT
_6	<u>5.5</u>	\$750	\$17,910	\$28,179	<u>\$26,190</u>	\$72,279
2000 _7	Consultant	116 4-253801	NAP-121-R5/R5.5 \$18,200	MAXWELL BF _\$41,003	RIDGE REPLACEI \$26,190	MENT \$85,393
2000	Consultant	VHA 4-439700	SCL-237- 8/ 9.6 M	MODIFY RTE 23 _\$25,001	•	E C) \$51,191
99 _6	Consultant	36 4-23810K	ALA-580-R9.3/ 10 \$15,600	0.1 RECONSTR _ <u>\$19,783</u>	RUCT INTERCHAN \$26,190	NGE _\$61,574
2000	Consultant	118 6-350700	FRE-99-R1/7.1 4	F TO 6F		
_3	5.5		\$8,580	\$25,161	\$26,190	\$59,931
99 _6	Consultant	27 7-106951	LA -10- 28/ 31.2( \$15,600	CNSTRCT ONE \$17,257	HOV LN IN EA D \$26,190	IRECTION \$59,047
2000	Consultant	133 11-030100	SD -5-R30/R34.5	"CONTIGUOL	JS FWY.DIR CON	N.TRK
12	<u>5.5</u>	\$1,500	\$35,820		\$26,190	\$62,010
			I IMP-7- 1.2/ 6.7( \$21,840			
2000	Consultant	79 11-06480	√ SD -15-M11.4/R	31.5 CONST H	OV/MANAGED L	ANES
			\$18,720			
			O SD -905- 5.7/ 12			
_7	_6	<u>\$1,500</u> .	\$23,340	<u>\$34,400</u>	<u>\$26,190</u>	_\$83,931

\$435,175

\$451,268

\$550,000

Caltrans 2000 VA Report

**TOTALS** 

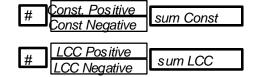
\$1,436,443

# Caltrans 2000 VA Program Summary Recommendations, Accepted and Conditionally Accepted



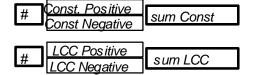
Recommendations Accepted Conditionally Accepted 49 99 Consultant 2-325900 PLU-70- 41.5/ 46.3 Quincy Rehab ROADWAY REHAB HA22 \$8,910,000 40,400 40,400 18 16 -4,604,000 2 -62,600 -4,666,600 -4,604,000 -4,707,000 -103,000 Inhouse \$6,800,000 2000 2-238020 SHA-299-/273/44 Redding Cuplet 1,200,000 1,200,000 11 8 2 1,200,000 1,200,000 99 Consultant 83 3-441630 SAC-50-12.3/23.1 HOV Lanes, Sunrise Blvd to El HB5 \$21,792,000 3,164,500 2,175,000 14,000 12 4 1 2,175,000 14,000 2,524,500 -640,000 Consultant 119 2000 3-388000 YOL-50- 1.2/ 1.4 WIDEN OC & REVISE E/B RAMPS -HE11 \$23,300,000 17,354,001.2 460,000 9 2 105,699,201 290,000 -11,654,800 -170,000 90 99 Inhouse 3-333800 PLA-65-R12.2/R23.8 Lincon Bypass HE14 \$64,500,000 37,929,198 4,700,000 2 8 32,612,239 4.700.000 -5,316,959 41 99 Consultant 3-366101 NEV-80- 20.3/ 23.6 "PCC OL, WIDEN MED, REHAB HA22 \$55,572,000 9,921,910 2,952,000 21 10 3,241,735 -3,042,110 -6,680,175 *-*5,994,110 50,209,751 27,872,285 20 10 50,209,751 27,872,285 99 Consultant 3-0A6001 PLA-80- 14.3/40 OVERLAY HA22 40 \$25,230,000 409,000 7 2 1 -30,752,112 -5,701,159 -635,560 -635,560 -31,161,112 -5,701,159 113,692,270 25,855,954 1,470,340 5 113,692,270 1 25,855,954 1 1,470,340

#### Caltrans 2000 VA Program Summary Recommendations, Accepted and Conditionally Accepted



Recommendations	Accepted	Conditionally Accepted
39 99 Consultant 3-3A200K PLA- 6 19,380,000 -5,061,410	80- 54.6/ 68.5 PCC OVERLAY AND R. 2 -2,778,769 1 504,000 504,000	
ca3 99C Inhouse 3-368501 YOL-84	- 18.4/R21.8 Widen Jefferson Blvd.  2 2.400,000 2,400,000	HE13 \$22,572,000  1 7.000,000 7,000,000
84 2000 Consultant 4-228770 CC -4 20 14,703,976 5,047,073	1- 22.2/ 23.8 WDN & RECONSTR IC (F 8 4,864,628 -4,950,500 -85,872	242,000
23 99C Inhouse 4-120611 NAP-29- 10 33.597.000 33,597,000	12.5/ 13.5 CONSTRUCT INTERCHANGE 2,000,000 2,000,000	
32 2000 Consultant 4-291001 SF -7  17 163,487,000 133,931,000	01- 4.7/ 5.1 CONST CENTRAL FWY  1 10,317,000 10,317,000	HA23 \$35,305,000
116 2000 Consultant 4-253801 NAP  6 6.009.000 6,009,000	-121-R5/R5.5 MAXWELL BRIDGE  2 287.000 -813,000	HA21 \$28,800,000
VHA 2000 Consultant 4-439700 SCI  12 1,330,000 1,330,000  2 6,100,000 6,100,000	-237- 8/ 9.6 MODIFY RTE 237/880 I/C	C (STAGE C) HE11 \$59,653,000  1 670,000 670,000

# Caltrans 2000 VA Program Summary Recommendations, Accepted and Conditionally Accepted



Recommendations Accepted Conditionally Accepted 36 99 Consultant 4-23810K ALA-580-R9.3/ 10.1 RECONSTRUCT INTERCHANGE HE12 \$4,000,000 28,914,000 22,294,000 9 28,914,000 1 22,294,000 Consultant 6-350700 FRE-99-R1/7.1 4F TO 6F 118 2000 HE<sub>13</sub> \$49,635,000 2,470,784 1,108,800 2 4 461,978 1,477,500 -993,284 -646,822 27 99 Consultant 7-106951 LA -10- 28/ 31.2 CNSTRCT ONE HOV LN IN EA HB5 \$52,069,000 9,678,062 500,000 18 1 9,678,062 500,000 Consultant 11-030100 SD -5-R30/R34.5 "CONTIGUOUS FWY, DIR HE13 \$135,019,000 133 2000 23,268,000 7,000,000 9 2 3 23,268,000 7,000,000 Consultant 122 2000 11-068001 IMP-7- 1.2/ 6.7 CONSTRUCT 4 LANE HIGHWAY HE14 \$34,491,000 1,936,204 500,000 1,136,606 8 461,774 2 500,000 1,136,606 -1,474,430 Consultant 79 2000 11-06480K SD -15-M11.4/R31.5 CONST HOV/MANAGED HB4C \$333,782,000 218,627,289 3,115,000 13 87,990,357 -76,885,000 -80,000,000 -130,636,932 254,726,000 263,893,500 41,502,050 254,726,000 -222,391,450 108 2000 Consultant 11-093160 SD -905- 5.7/ 12 CONST 6-LANE FWY HE14 \$217,531,000 12 5 2 -8,160,000 -2,053,000 -244.000 -8,160,000 -2,053,000 -244,000

#### Caltrans 2000 VA Program Summary Recommendations, Accepted and Conditionally Accepted

# Const. Positive | sum Const |
# LCC Positive | sum LCC |

Recommendations Accepted Conditionally Accepted

#### **TOTALS**

Recommendations

233 \$437,741,319

31 \$211,504,071

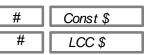
Accepted

76 \$42,124,932 13 308,958,239 Conditionally Accepted

 14
 \$8,092,346

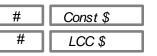
 1
 \$1,470,340

# Caltrans 2000 VA Program Summary of Study Results



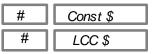
49 99 Consultant	2-325900 PLU-70- 41.5/ 4	46.3 Quincy Rehab ROADV	VAY REHAB HA	22 \$8,910,000
Recommendations	Accepted	Conditionally Accepted	initial plus lcc	-\$4,604,000
18 -\$4,666,600	16 -4,604,000	2 -\$62,600	acceptence rate	0.89
			percent of project	-0.52
	,			0.02
2000 Inhouse	2-238020 SHA-299-/273/4	14 Redding Cuplet		\$6,800,000
Recommendations	Accepted	Conditionally Accepted	initial plus lcc	\$1,200,000
11 \$1,200,000	1,200,000	2	acceptence rate	0.73
	ו רווווווווווווווווווווווווווווווווווו		percent of project	0.18
	,			
83 99 Consultant		23.1 HOV Lanes, Sunrise B	Blyd to El HB	5 \$21,792,000
Recommendations	Accepted	Conditionally Accepted	initial plus lcc	\$2,175,000
12 \$2,524,500	4 2,175,000	1 \$14,000	acceptence rate	0.33
	ן 🔲 🗀 [		percent of project	0.10
	•			
119 <i>2000</i> Consultant		.4 WIDEN OC & REVISE E	/B RAMPS - HE	11 \$23,300,000
Recommendations	Accepted	Conditionally Accepted	initial plus lcc	\$290,000
9 105,699,201	2 290,000		acceptence rate	0.22
			percent of project	0.01
90 99 Inhouse	3-333800 PLA-65-R12.2/	• •	HE	
Recommendations \$32,612,239	4,700,000	Conditionally Accepted	initial plus lcc	\$4,700,000
θ φ32,012,239	7,700,000		accepte nce rate	0.25
	] [		percent of project	
41 99 Consultant		23.6 "PCC OL, WIDEN ME	D, REHAB HA	22 \$55,572,000
Recommendations	Accepted	Conditionally Accepted	initial plus lcc	\$24,830,175
21 \$3,241,735	10 -3,042,110		acceptence rate	0.48
20 \$50,209,751	10 27,872,285		percent of project	0.45
40 99 Consultant	3-0A6001 PLA-80- 14.3/	40 OVERLAY	HA	22 \$25,230,000
Recommendations	Accepted	Conditionally Accepted	initial plus lcc	\$20,154,795
7 \$30,752,112	2 -5,701,159	1 -\$635,560	acceptence rate	<i>0.29</i>
5 113,692,270	1 25,855,954	1 \$1,470,340	percent of project	0.80
0 110,032,210	20,000,004	, ψ1,-11 υ,υπυ		0.00
39 99 Consultant	3-3A200K PLA-80- 54.6/	68.5 PCC OVERLAY AND	RAMP HA	22 \$137,625,000
39 99 Consultant Recommendations	3-3A200K PLA-80- 54.6/ Accepted	68.5 PCC OVERLAY AND Conditionally Accepted	RAMP HA	
				22 \$137,625,000 -\$2,274,769 <b>0.33</b>

# Caltrans 2000 VA Program Summary of Study Results



ca3 99C Inhouse	3-368501 YOL-84- 18.4/R	221.8 Widen Jefferson Blvd.	HE	13 \$22,572,000
Recommendations	Accepted	Conditionally Accepted	initial plus lcc	\$2,400,000
3 \$9,400,000	2,400,000	1 \$7,000,000	acceptence rate	0.67
			percent of project	0.11
	, ————		,	0.77
84 2000 Consultant		3.8 WDN & RECONSTR IC (	(RAILROAD HB	4C \$62,575,000
Recommendations	Accepted	Conditionally Accepted	initial plus lcc	-\$85,872
20 \$5,047,073	8 -85,872	1 \$213,900	acceptence rate	0.40
			percent of project	-0.00
	, ————			
23 99C Inhouse		13.5 CONSTRUCT INTERCH	HANGE HE	14 \$41,220,000
Recommendations	Accepted	Conditionally Accepted	initial plus lcc	\$2,000,000
10 \$33,597,000	2,000,000		acceptence rate	0.10
			percent of project	0.05
	,			0.00
32 2000 Consultant	4-291001 SF -101- 4.7/ 5	5.1 CONST CENTRAL FWY	HA	23 \$35,305,000
Recommendations	Accepted	Conditionally Accepted	initial plus lcc	\$10,317,000
17 133,931,000	1 10,317,000		acceptence rate	0.06
			percent of project	0.29
116 <i>2000</i> Consultant	4-253801 NAP-121-R5/R5	5.5 MAXWELL BRIDGE	HA	21 \$28,800,000
Recommendations	Accepted	Conditionally Accepted	initial plus lcc	-\$813,000
6 \$6,009,000	2 -813,000		acceptence rate	<i>0.33</i>
	i		percent of project	-0.03
			posiciones project	0.03
VHA 2000 Consultant	4-439700 SCL-237- 8/ 9.6	6 MODIFY RTE 237/880 I/C	(STAGE C) HE	11 \$59,653,000
Recommendations	Accepted	Conditionally Accepted	initial plus lcc	\$0
12 \$1,330,000		1 \$670,000	acceptence rate	0.00
2 \$6,100,000			percent of project	0.00
φο, του, συσ	, ————			0.00
36 99 Consultant	4-23810K ALA-580-R9.3/	10.1 RECONSTRUCT INTE	RCHANGE HE	12 \$4,000,000
Recommendations	Accepted	Conditionally Accepted	initial plus lcc	\$22,294,000
9 \$28,914,000	1 22,294,000		acceptence rate	0.11
	i —		percent of project	5.57
	,		. , ,	0.07
118 <i>2000</i> Consultant	6-350700 FRE-99-R1/7.1	4F TO 6F	HE	13 \$49,635,000
Recommendations	Accepted	Conditionally Accepted	initial plus lcc	\$461,978
4 \$1,477,500	2 461,978		acceptence rate	0.50
			percent of project	0.01
	:		1.	0.01

### Caltrans 2000 VA Program Summary of Study Results



27 99 Consultant	7-106951 LA -10- 28/ 31.2	CNSTRCT ONE HOV LN II	N EA HB	5 \$52,069,000
Recommendations	Accepted	Conditionally Accepted	initial plus lcc	\$500,000
18 \$9,678,062	1 500,000		acceptence rate	0.06
			percent of project	0.01
133 2000 Consultant	11-030100 SD -5-R30/R34	I.5 "CONTIGUOUS FWY,DI	R HE	13 \$135,019,000
Recommendations	Accepted	Conditionally Accepted	initial plus lcc	\$7,000,000
9 \$23,268,000	3 7,000,000	2	acceptence rate	0.33
			percent of project	0.05
122 2000 Consultant	11-068001 IMP-7- 1.2/ 6.7	CONSTRUCT 4 LANE HIG	HWAY HE	14 \$34,491,000
Recommendations	Accepted	Conditionally Accepted	initial plus lcc	\$500,000
8 \$461,774	2 500,000	1 \$1,136,606	acceptence rate	0.25
			percent of project	0.01
79 2000 Consultant	11-06480K SD -15-M11.4/	R31.5 CONST HOV/MANA	GED HB4	4C \$333,782,000
Recommendations	Accepted	Conditionally Accepted		Ø477 044 000
		Conditionally Accepted	initial plus lcc	\$177,841,000
13 \$87,990,357	2 -76,885,000	Conditionally Accepted	acceptence rate	\$177,841,000 <b>0.15</b>
		Conditionally Accepted	<u>-</u>	
13 \$87,990,357	2 -76,885,000	Conditionally Accepted	acceptence rate	0.15
13 \$87,990,357	2 -76,885,000 1 254,726,000 11-093160 SD -905- 5.7/		acceptence rate percent of project	0.15
13 \$87,990,357 4 \$41,502,050 108 2000 Consultant Recommendations	2 -76,885,000 1 254,726,000 11-093160 SD -905- 5.7/ Accepted	12 CONST 6-LANE FWY  Conditionally Accepted	acceptence rate percent of project	0.15 0.53
13 \$87,990,357 4 \$41,502,050 108 2000 Consultant	2 -76,885,000 1 254,726,000 11-093160 SD -905- 5.7/	12 CONST 6-LANE FWY	acceptence rate percent of project	<b>0.15 0.53</b> 14 \$217,531,000
13 \$87,990,357 4 \$41,502,050 108 2000 Consultant Recommendations	2 -76,885,000 1 254,726,000 11-093160 SD -905- 5.7/ Accepted	12 CONST 6-LANE FWY  Conditionally Accepted	acceptence rate percent of project  HE	0.15 0.53 14 \$217,531,000 -\$2,053,000
13 \$87,990,357 4 \$41,502,050 108 2000 Consultant Recommendations	2 -76,885,000 1 254,726,000 11-093160 SD -905- 5.7/ Accepted	12 CONST 6-LANE FWY  Conditionally Accepted	acceptence rate percent of project  HE initial plus lcc acceptence rate	0.15 0.53 14 \$217,531,000 -\$2,053,000 0.42
13 \$87,990,357 4 \$41,502,050 108 2000 Consultant Recommendations	2 -76,885,000 1 254,726,000 11-093160 SD -905- 5.7/ Accepted	12 CONST 6-LANE FWY  Conditionally Accepted	acceptence rate percent of project  HE initial plus lcc acceptence rate	0.15 0.53 14 \$217,531,000 -\$2,053,000 0.42
13 \$87,990,357  4 \$41,502,050  108 2000 Consultant  Recommendations  12 -\$8,160,000  TOTALS	2 -76,885,000 1 254,726,000 11-093160 SD -905- 5.7/	12 CONST 6-LANE FWY  Conditionally Accepted  2 -\$244,000	acceptence rate percent of project  HE initial plus lcc acceptence rate	0.15 0.53 14 \$217,531,000 -\$2,053,000 0.42
13 \$87,990,357  4 \$41,502,050  108 2000 Consultant  Recommendations  12 -\$8,160,000	2 -76,885,000  1 254,726,000  11-093160 SD -905- 5.7/	12 CONST 6-LANE FWY Conditionally Accepted 2 -\$244,000  Conditionally Accepted	acceptence rate percent of project  HE initial plus lcc acceptence rate percent of project	0.15 0.53 14 \$217,531,000 -\$2,053,000 0.42
13 \$87,990,357  4 \$41,502,050  108 2000 Consultant  Recommendations  12 -\$8,160,000  TOTALS	2 -76,885,000 1 254,726,000 11-093160 SD -905- 5.7/	12 CONST 6-LANE FWY  Conditionally Accepted  2 -\$244,000	acceptence rate percent of project  HE initial plus lcc acceptence rate	0.15 0.53 14 \$217,531,000 -\$2,053,000 0.42

\$211,504,071

308,958,239

13

Rec No	PROJECT	CONST \$	LCC \$
1	2-325900 PLU-70- 41.5/ 46.3 Quincy Rehab ROADWAY REHAB &		
	Construct Class 1 Bike Lane Parallel to Highway		
	This is budgeted for in Cost Estimate and does not represent a cost increase alternative resolved the issue how to best do the bike lane. The MBGR sugg shoulder and the bike lane is not necessary and should be removed		
5	2-325900 PLU-70- 41.5/ 46.3 Quincy Rehab ROADWAY REHAB &	\$191,000_	
	Increase Design of Structural Section for 20-Year Life		
	Caltrans Design will continue to develop and refine the cost for this item. As considered use to reduce cost. User delay and community business impact considered over the project life. Added design time will be required Sidewa modified to optimize functionality.	cost need to be	uld be
6	2-325900 PLU-70- 41.5/ 46.3 Quincy Rehab ROADWAY REHAB &	\$27,000	
	Modify Court Street Intersection		
	Modify alternative to maintain access from SR70 to Court Street while allowin Court Street to SR70.	g right turn only i	rom
10	2-325900 PLU-70- 41.5/ 46.3 Quincy Rehab ROADWAY REHAB &	\$134,000	
	Extend Grinding/Rehabilitation to Cross Streets of Couplet		
	Work necessary to conform properly at cross streets will be done. This should suggested in the VA Alternative. Cost increase should be less than indicate		han
11	2-325900 PLU-70- 41.5/ 46.3 Quincy Rehab ROADWAY REHAB &	\$1,679,000_	
	Add Curb and Gutter over Cemetery Hill		
	"Design team should review concept for a creative, more cost effective option erosion. Lower priority than other additive items."	n. Need to reduc	е
12	2-325900 PLU-70- 41.5/ 46.3 Quincy Rehab ROADWAY REHAB &	\$296,000_	
	Add Sidewalk over Cemetery Hill		
	"Design team should review concept for a creative, more cost effective option other additive items. Caltrans has requested TEA funding for sidewal section should be considered"		
13	2-325900 PLU-70- 41.5/ 46.3 Quincy Rehab ROADWAY REHAB &	_\$665,000	
	Improve Cut Slope and Revegetate to Control Erosion		
	Caltrans Design needs to refine this to reduce cost. Spot treatment may be extensive re vegetation and work	possible as oppo	osed to
14	2-325900 PLU-70- 41.5/ 46.3 Quincy Rehab ROADWAY REHAB &		
	Add Subgrade Drainage		
	Caltrans Design needs to finalize quantity and locations		
15	2-325900 PLU-70- 41.5/ 46.3 Quincy Rehab ROADWAY REHAB &	\$126,000_	
	Add Brow Ditch at Top of Cut Slope		
	Caltrans Design needs to see if there is a way to do selectively and more cos	st effectively.	

16 2-325900 PLU-70- 41.5/ 46.3 Quincy Rehab ROADWAY REHAB &\$364,000 Provide Curb and Gutter from Fairgrounds to Mill Creek Road	
·	
"Could have some CT TEA investment, but may require local TEA money to fund. This should have higher priority than Cemetery Hill section. Drainage cost s in the PSSR estimate"	
17 2-325900 PLU-70- 41.5/ 46.3 Quincy Rehab ROADWAY REHAB & -\$276,000	
Provide Sidewalk from Fairgrounds to Mill Road	
Probably basis for County application for TEA funds. Will do if County gets funding	
18 2-325900 PLU-70- 41.5/ 46.3 Quincy Rehab ROADWAY REHAB & -\$431,000	
Construct Center Medians at Select Locations	
"Size and location of median island need to be finalized and agreed to with Caltrans and County.  Three medians are now projected, this should reduce cost as the VA Team estimate is based on 6 medians. Mountable concrete curb design will be required. This may impact plantings (trees may not be possible). Design should consider longevity needs – higher cement content, air entraining, etc."	
19	
Add New Road – 1st Street to Lee	
Right-of-way negotiations underway. R/W cost needs to be added to the estimate. Traffic branch needs to verify traffic signal need. County will need to get STIPP funds.	
20 2-325900 PLU-70- 41.5/ 46.3 Quincy Rehab ROADWAY REHAB & -\$31,000	
Close East End of Lee Road	
Only a small portion will require state funds. This is primarily a local issue.	
22 2-325900 PLU-70- 41.5/ 46.3 Quincy Rehab ROADWAY REHAB & -\$60,000  Provide Creative Signing to Reduce Sign Clutter  Caltrans Design needs to study this and incorporate appropriate measures	
1 2-325900 PLU-70- 41.5/ 46.3 Quincy Rehab ROADWAY REHAB &	
Construct Class 1 Bike Lane Parallel to Highway	
This is budgeted for in Cost Estimate and does not represent a cost increase to the project. This alternative resolved the issue how to best do the bike lane. The MBGR suggested between the shoulder and the bike lane is not necessary and should be removed	
DS#1	
Redefinition of Purpose and need	
DS#2_ 2-238020_SHA-299-/273/44_Redding Cuplet	
Elimination of Alternatives D, E, & F	

Rec No	PROJECT	CONST \$	LCC \$
1	2-238020 SHA-299-/273/44 Redding Cuplet		
	Add 3rd lane on ED 299 between East Street and Auditorium Drive (widen Cor	atinental Street	
	undercrossing and EB 299 for standard widths)	illilerilar Street	
4	2-238020 SHA-299-/273/44 Redding Cuplet		
	Add 1 SB North Market right turn only lane between Trinity and Eureka Way		
5	2-238020 SHA-299-/273/44 Redding Cuplet		
	Add 1 SB North Market right turn only lane between Trinity and Eureka Way		
6	2-238020 SHA-299-/273/44 Redding Cuplet		
	Tehama EB Conterflow just north of mall between California and Market		
7	2-238020 SHA-299-/273/44 Redding Cuplet		
	Modify/enhance existing traffic signals system utilizing state-of-the-art technology	ogy to optimize	
	operation		
8	2-238020 SHA-299-/273/44 Redding Cupl et		
	Provide pedestrian enhancement along Market Street		
NA 4+	0.444000, 0A0 50, 40.0/00.4 HOV/Lease Overies Blot to Fl Barrela	ФО 4 <b>7</b> 5 000	
IVI-1*	3-441630 SAC-50- 12.3/ 23.1 HOV Lanes, Sunrise Blvd to El Dorado	\$2,175,000	
	Combine all Four Projects  Bids will be combined under one contract.		
	Bras will be combined under one contract.		
S-10*	3-441630 SAC-50- 12.3/ 23.1 HOV Lanes, Sunrise Blvd to El Dorado		
	Relocate Underground Utilities		
	Avoids damage to utilities during construction.		
S-1*	3-441630 SAC-50- 12.3/ 23.1 HOV Lanes, Sunrise Blvd to El Dorado		
	Close Deck at White Rock Road		
	Added to project scope.		
<u>TKR-9*</u>	3-441630 SAC-50- 12.3/ 23.1 HOV Lanes, Sunrise Blvd to El Dorado		
	Detour to White Rock Road		
	"Reduces temporary railing, simplifies construction."		

Rec No	PROJECT	CONST \$	LCC\$
1.5	3-388000 YOL-50- 1.2/ 1.4 WIDEN OC & REVISE E/B RAMPS - 6	\$460,000	
4.0	3-388000 YOL-50- 1.2/ 1.4 WIDEN OC & REVISE E/B RAMPS - 6	\$170,000	
BR-4	3-333800 PLA-65-R12.2/R23.8 Lincon Bypass	\$500,000	
	Lower Grade of Lincoln Bypass (BR-4). The original concept places the roadw feet above grade throughout the new alignment. This alternate would place the for the entire length of the alignment.  Portions of this alternative may be implemented in limited areas		
BR-9	3-333800 PLA-65-R12.2/R23.8 Lincon Bypass	\$4,200,000_	
	Eliminate Nelson and Riosa Road Improvements (BR-9). The original conception Road from two lanes to five lanes, from the intersection of the D-13 alignals of widens existing Riosa Road from two lanes to five lanes from the intersect alignment to the existing "old" Route 65. The work involves construction of a number of the improvements will be required at Nelson and Riosa. full widening is no	nment to the airp tion of the D-13 ew alignment for	ort. It
	Additional ROW savings offset limited improvements.	requirea.	
1.2	3-366101 NEV-80- 20.3/ 23.6 "PCC OL, WIDEN MED, REHAB BR Use precast I-girders	\$204,000	\$126,000
1.3	3-366101 NEV-80- 20.3/ 23.6 "PCC OL, WIDEN MED, REHAB BR Use precast prestressed bulb T Same comments as 1.2	<u>\$456,000</u> .	\$224,000
2.1	3-366101 NEV-80- 20.3/ 23.6 "PCC OL, WIDEN MED, REHAB BR Install new piers	\$0	\$550,000
2.2	3-366101 NEV-80- 20.3/ 23.6 "PCC OL, WIDEN MED, REHAB BR Use columns in lieu of pier walls	\$710,000	\$320,000
5.1	3-366101 NEV-80- 20.3/ 23.6 "PCC OL, WIDEN MED, REHAB BR Eliminate joints	\$64,000	\$284,766

Rec No PROJECT	CONST \$	LCC\$
6.1 3-366101 NEV-80- 20.3/ 23.6 "PCC OL, WIDEN MED, REHAB BR Use high performance concrete; Decrease concrete permeability	\$1,128,000_	\$8,426,160_
6.2 3-366101 NEV-80- 20.3/ 23.6 "PCC OL, WIDEN MED, REHAB BR Use precast concrete	-\$296,910	\$1,475,910_
6.3 3-366101 NEV-80- 20.3/ 23.6 "PCC OL, WIDEN MED, REHAB BR Use de-icing device	-\$260,200_	\$2,638,449_
7.1 3-366101 NEV-80- 20.3/ 23.6 "PCC OL, WIDEN MED, REHAB BR Increase wearing capacity; use sacrificial overlay. use polyester concrete over	\$4,309,000_ erlay.	\$7,309,000_
8.2 3-366101 NEV-80- 20.3/ 23.6 "PCC OL, WIDEN MED, REHAB BR Use innovative materials	\$1,518,000_	\$6,518,000_
1.2 3-0A6001 PLA-80- 14.3/ 40 OVERLAY  Grind/replace existing AC	\$5,697,559_	\$25,855,954
2.1 3-0A6001 PLA-80- 14.3/ 40 OVERLAY  Use fold in place	-\$3,600	
1.3 3-3A200K PLA-80- 54.6/ 68.5 PCC OVERLAY AND RAMP REHAB PCCoverlay include transfers and longitudinal dowels at joints	\$2,778,769_	
3.1 3-3A200K PLA-80- 54.6/ 68.5 PCC OVERLAY AND RAMP REHAB Use Concrete guardrail in lieu of MBGR		\$504,000_
2 3-368501 YOL-84- 18.4/R21.8 Widen Jefferson Blvd.  Rail road Relocation Alternative: Keep RR Crossing at Stone Blvd. Straighter blvd.	\$400,000 n stracks across j	efferson

Rec No	PROJECT	CONST \$	LCC \$
3	3-368501 YOL-84- 18.4/R21.8 Widen Jefferson Blvd.  Two-phase construction to defer widening south of Higgins.	\$2,000,000	
1.2_	4-228770 CC -4- 22.2/ 23.8 WDN & RECONSTR IC (RAILROAD AV Use Existing Roadway for Interim Westbound Lanes in lieu of New Roadway	\$1,922,108	
2.0*_	4-228770 CC -4- 22.2/ 23.8 WDN & RECONSTR IC (RAILROAD AV Change Profile of Mainline at Harbor Street	\$75,000	
6.0*	4-228770 CC -4- 22.2/ 23.8 WDN & RECONSTR IC (RAILROAD AV  Eliminate Pittsburg BART Station Structure Entirely	\$1,430,000	
7.0*_	4-228770 CC -4- 22.2/ 23.8 WDN & RECONSTR IC (RAILROAD AV Stage Removal and Construction of Railroad Avenue Overcrossing	-\$1,078,000	
9.0	4-228770 CC -4- 22.2/ 23.8 WDN & RECONSTR IC (RAILROAD AV Skew Harbor Street Overcrossing	-\$3,526,000	
11.0*_	4-228770 CC -4- 22.2/ 23.8 WDN & RECONSTR IC (RAILROAD AV Review Structure Estimates (Bridges Only)	\$1,437,520 <u> </u>	
16.0	4-228770 CC -4- 22.2/ 23.8 WDN & RECONSTR IC (RAILROAD AV  Add Sidewalk to West Side of Railroad Avenue Overcrossing	-\$140,000	
18.0*_	4-228770 CC -4- 22.2/ 23.8 WDN & RECONSTR IC (RAILROAD AV  Design Stormwater Pump Station for Reliability	-\$206,500	
_RE-4c	4-120611 NAP-29- 12.5/ 13.5 CONSTRUCT INTERCHANGE  RE-4c: Eliminate slurry wall	\$2,000,000	

Rec No	PROJECT	CONST \$	LCC \$
1.1	4-291001 SF -101- 4.7/ 5.1 CONST CENTRAL FWY	\$10,317,000	
	Touch down on Markett with Octavia inprovements		
1.0	4-253801 NAP-121-R5/R5.5 MAXWELL BRIDGE REPLACEMENT  Dual Bridge	-\$1,100,000	
		<b>*</b>	
6.0	4-253801 NAP-121-R5/R5.5 MAXWELL BRIDGE REPLACEMENT	\$287,000	
	Coordinate sequencing of earthwork with flood protection project		
<u>Note</u>	4-23810K ALA-580-R9.3/ 10.1 RECONSTRUCT INTERCHANGE	\$22,294,000	
	Note: Project deferred 10-15 years until BART alignment- now designed for I-58 determined. Total savings:\$22,294,000 with only \$5,000,000 to be spent by the the MPA (eastbound off-ramp).		•
3	6-350700 FRE-99-R1/ 7.1 4F TO 6F	-\$646,822	
	Construct Temporary Detour in Median		
	Eliminates night work and lane closures Will strengthen PCC pavement seconder cure times	tions by allowing	
4	6-350700 FRE-99-R1/ 7.1 4F TO 6F	\$1,108,800	
	Reduce Height of Soundwalls to 6 Feet		
	Balances noise/visual impacts		
	balances noise/visual impacts		
CV-8	7-106951 LA -10- 28/ 31.2 CNSTRCT ONE HOV LN IN EA	\$500,000	
	Use Reclaimed Material in lieu of Class 3 Aggregate Base	Ψοσοίσσο	
	The new CalTrans Standard will be applied		
1.0	11-030100 SD -5-R30/R34.5 "CONTIGUOUS FWY,DIR CONN,TRK	\$7,000,000	
	Perform Clearing/Grubbing Before Main Contract		
	Revisions were made to the validated cost savings for VA Alternative 1.0, 2.0 a estimated overhead savings for VA Alt. 1.0 was reduced from \$30,500 to \$25, rates) resulting a net savings of \$5.5 million		
2.0	11-030100 SD -5-R30/R34.5 "CONTIGUOUS FWY,DIR CONN,TRK		
	Construct Carmel Mountain Road Structures Concurrent with MSE Wall Found	lations	
	VA Alt. 2.0 was considered to be included as part of VA Alt. 1.0, and therefore savings were included for it. Savings for VA Alt. 3.0 were recalculated at \$1.5 the total cost of the PGR Wall) to better reflect savings for labor rates on perr 18/24 hour work window.	million (about 5%	

Rec No	PROJECT	CONST \$	LCC \$
3.0	11-030100 SD -5-R30/R34.5 "CONTIGUOUS FWY,DIR CONN,TRK		
	Allow for 18-Hour Construction Window		
	Allow for 10 Flour Construction Window		
7.0	11-068001 IMP-7- 1.2/ 6.7 CONSTRUCT 4 LANE HIGHWAY	\$500,000	
	Combine surafce/subsurface drainage		
	Alternative will be pursued. Consultant will be engaged to determine the cost to	o design; there	vill
	be some re-engineering costs.		
	It is estimated that approximately \$1.1 million should have been included in the estimate to account for the "Original Concept" costs. Therefore, the savings n	-	timated
	as approximately \$500,000.	ray 20 20110, 00	atou
8.0	11-068001 IMP-7- 1.2/ 6.7 CONSTRUCT 4 LANE HIGHWAY		
	Utilize Box culverts		
	May do part 1 of Alternative without part 2. Considerations include EIR concern		
	right-of-way takes, raising of profile, culvert costs, and changed design. Pendi	ng consultant re	eview
	(60 to 90 days; mid-October or mid-November, 2000).	Фородо осо	<b>A</b> 0.7.4.700.000
1.3	11-06480K SD -15-M11.4/R31.5 CONST HOV/MANAGED LANES	-\$80,000,000	\$254,726,000
	4 Managed Lanes (3+1 or 2+2) Configuration		
	This alternative provides the only true long term solution to corridor congestion		
4	11-06480K SD -15-M11.4/R31.5 CONST HOV/MANAGED LANES	\$3,115,000	
	Pony Duenda Overcrossing and North County Fair Overcrossing		
	Partially Accepted - This Alternative will be implemented at Duenda and will re	duce community	/
	disruption during construction and shorten construction time. Further analysis	_	
	design reveled that this overcrossing will need to be replaced for other reasons option to "Poney" the structure.	s and there is no	)
1	11-093160 SD -905- 5.7/ 12 CONST 6-LANE FWY	-\$400,000	
	Use Precast Structure in lieu of Cast-In-Place	-\$400,000	
	Use i recast structure in fied of Sast-IIPI lace		
4.1*	11-093160 SD -905- 5.7/ 12 CONST 6-LANE FWY	-\$173,000	
	Add a Southbound U-Turn Lane at the End of SR 905		
5	11-093160 SD -905- 5.7/ 12 CONST 6-LANE FWY		
	Eliminate all Southbound Trucks on SR 905		
7	11-093160 SD -905- 5.7/ 12 CONST 6-LANE FWY	-\$490,000	
	Close Siempre Viva Road and Detour Around Project		

Rec No	PROJECT	CONST \$	LCC \$
9	11-093160 SD -905- 5.7/ 12 CONST 6-LANE FWY		
	Perform All Construction at Night		

#### **TOTALS**

76 # of Rec76 # Accepted

CONSTRUCTION \$	Recommended	Accepted
TTL Positive	\$92,219,243	\$65,873,428
TTL Negative	-\$107,344,367	-\$107,998,360
TOTAL	-\$15,125,124	-\$42,124,932

LIFE CYCLE \$	Recommended	Accepted
TTL Positive	\$299,613,945	\$308,958,239
TTL Negative	\$0	\$0
TOTAL	\$299,613,945	\$308,958,239

# Caltrans 2000 VA Program Conditionally Accepted Recommendations

Rec No	PROJECT	CONST \$	LCC\$
21	2-325900 PLU-70- 41.5/ 46.3 Quincy Rehab ROADWAY REHAB & Upgrade Street Lighting	\$40,400_	
	"(\$820,900) County; County needs to verify their lighting needs and desires. add some intersection lighting"	Caltrans may nee	ed to
9	2-325900 PLU-70- 41.5/ 46.3 Quincy Rehab ROADWAY REHAB &	-\$103,000	
	Improve Drainage System on North Side of Main Street		
	"Need to ensure no flooding of businesses with reconstruction of the road, co	urbs and gutters."	,
2	2-238020 SHA-299-/273/44 Redding Cuplet		
	Create Shasta/Tehama one way Couplet (and privede Tehama counterflow ea	st of Market)	
3	2-238020 SHA-299-/273/44 Redding Cuplet		
	Create a EB conterflow on Eureka Wan between Market and Pine Street		
TKR-4	3-441630 SAC-50- 12.3/ 23.1 HOV Lanes, Sunrise Blvd to El Dorado	\$14,000	
	Detour to Folsom Blvd. at Night	7 1 1,000	
	Will be incorporated in staging plan.		
	, 3 3,		
<u> </u>	3-0A6001 PLA-80- 14.3/ 40 OVERLAY	\$635,560_	\$1,470,340_
	Use thicker pavement on truck lane. (FG)		
1	3-368501 YOL-84- 18.4/R21.8 Widen Jefferson Blvd.	\$7,000,000_	
	Build a bascule ready abutment/simple span cip/ps bridge		
4.0*	4 220770 CC 4 22 2/ 22 0 M/DN 8 DECONCED IC (DAIL DOAD AV	Ф242 000	
4.0	4-228770 CC -4- 22,2/ 23.8 WDN & RECONSTR IC (RAILROAD AV	\$213,900	
	Over-Excavate for ADL Encapsulation		
M-3	4-439700 SCL-237- 8/ 9.6 MODIFY RTE 237/880 I/C (STAGE C)	\$670,000_	
W O	THE ZOLIGO GOL ZOLIGO WIGOLI THE ZOLIGO WO (OTHOLO)	φονο,σσσ	
4.0	11-030100 SD -5-R30/R34.5 "CONTIGUOUS FWY,DIR CONN,TRK		
	Permit Alternative Contractor Systems for MSE Wall		
	VA Alt. 4.0 was conditionally accepted, but only for other PGR wall types. Vi	iaduct alternatives	s will
	not be considered by Caltrans		

### Caltrans 2000 VA Program Conditionally Accepted Recommendations

Rec No	PROJECT	CONST \$	LCC \$
6.0	11-030100 SD -5-R30/R34.5 "CONTIGUOUS FWY,DIR CONN,TRK		
	Provide Alternative Staging for Work at Coaster Station		
	VA Alt. 6.0 will considered as a contingency in the event that NCTD/MTDB do Caltrans' current staging plans	es not accept	
1.0	11-068001 IMP-7- 1.2/ 6.7 CONSTRUCT 4 LANE HIGHWAY	\$1,136,606	
	Do not pave frontage roads		
	Savings only if paving is required (Right-of-Way advises that paving throughout however, Imperial County has not been contacted yet). Right-of-Way advises throughout the project are not required. Only two properties have been determined the project are not required access to be provided. North of the landle landowners will be given compensation, which will include compensation for creates	that frontage roa ned to be landloo ocked properties	cked
1.2	11-06480K SD -15-M11.4/R31.5 CONST HOV/MANAGED LANES	-\$20,000,000	\$9,167,500
	2+2 HOV Configuration		
	Some stakeholders like this alternative as it avoids Managed Lane operating of	cost.	
7	11-06480K SD -15-M11.4/R31.5 CONST HOV/MANAGED LANES		
	Revise Project Schedule  Current Schedule is optimistic considering the number of structures involved.  resources to compress design and environmental time	Need to aply	
10	11-093160 SD -905- 5.7/ 12 CONST 6-LANE FWY	\$0	
	Use Design Sequencing in lieu of Design-Bid Build Contract		
8	11-093160 SD -905- 5.7/ 12 CONST 6-LANE FWY	-\$244,000	
	"Upgrade Right-Tum Lane, Airway to SR 905"		

#### **TOTALS**

16 # of Rec16 # Conditionally Accepted

CONSTRUCTION \$	Recommended	Accepted
TTL Positive	\$9,074,906	
TTL Negative	-\$20,982,560	
TOTAL	-\$11,907,654	

LIFE CYCLE \$	Recommended	Accepted
TTL Positive	\$10,637,840	\$0
TTL Negative	\$0	\$0
TOTAL	\$10,637,840	\$0